BRUHATH BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Providing drinking Water Sinking of borewell and pipe line in Ward No -11 Kuvempunagara.

MEASUREMENT

RA BILL NO FIRST AND FINAL

From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
2	3	4	5	6	7	8	9
Supply and delivery at sire brand new submersible PUMPSET suitable for borewell of 150mm dia and having declared duty conditions as detailed below and satisfying performance characteristic for pump and motor as declared by Bureau of Indian Standards. The pump should confirm to IS:8034-1976 (with all its latest amendments) and should bear the ISI certification mart IS 8034-1976. The pumpset should consist of bronze impellers. Discharge: 7500 Iph, Head: 102.88 mts, 15.00 HP30 Stage Atalanta, Neptune, CRI KIRLOSKAR and other equipment pump 15.00 HP / 11 KW (30 Stages)							
	Set						
Pre measurement Quantity vide page no (6)						5.00	
Quantity To be Paid						5.00	
Submersible Cables: Supply and delevery brand New best make PVC insulated cable of flat 3 core (Sheathed) of nominal cross sectional area to IS: 694-1977 with latest amendments and ISI mark 1x3x6.00 Sq mm							
	Rmtr						
Pre measurement Quantity vide page no (6)						2082.00	
Quantity To be Paid						2082.00	
Supply and delivery of Brand New gate Valve of 50mm dia size confirming to IS: 778-1984 with latest amendments with ISI mark							
	Each						
Gangammagudi-Kuvempu layout		1				1.00	
Kuddle vinayaka Temple		1				1.00	
Near Aveksha Hospital		1				1.00	
Vinayaka Nagar		1				1.00	
Singapura -Balaji Layout		1				1.00	
				Total		**5.00**	

Assistant Engineer 30/8/19

30/8/19

Assistant Executive Engineer
Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
16	Supply and delivery of Brand New best make non return valve of 50mm dia size confirming to IS: 10805-1986 with latest amendments with ISI mark							
		Each						
	Gangammagudi-Kalattur layout		1				1.00	
	Gudde vinayaka Temple		1				1.00	
	Near Aveksha Hospital		1				1.00	
	Vinayaka Nagar		1				1.00	
	Singapura -Balaji Layout		1				1.00	
					Total		5.00	
17	Supply, Installation testing and commissioning of approved make heavytubes (Class 'C') confirming to as per IS1239 Part - I (25mm Nominalbore 4.05mm thick @ 2.97 Kg/m, 32mm Nominal bore 4.05mm thick@ 3.84 Kg/m,40mm Nominal bore 4.05mm thick @ 4.43 Kg/m,50mmNominal bore 4.47mm thick @ 6.17 Kg/m, 65mm Nominal bore 4.47mmthick @ 7.90 Kg/m, 80mm Nominal bore 4.85mm thick @ 10.10 Kg/m,100mm Nominal bore5.40mm thick @ 14.40 Kg/m,150mm Nominal bore5.40mm thick @ 21.20 Kg/m, Such as Tees elbows check nuts unions,Flanger, Nipples etc. including cutting welding, Trending fixing on walls,ceiling (Using 41-Tech pipe/M.S.angle supports work includes two coatsof metal primer and two coats of Red enamel paint etc.including cost ofmaterials, labour, HOM complete as per specifications.							
		Rmtr						
	Pre measurement Quantity vide page no (7)						1041.00	
	Quantity To be Paid						1041.00	

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MEASUREMENT

RA BILL NO FIRST AND FINAL

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
18	Meter and Panel Board: Supply and delivery of meter and panel board unit one number of MS box of size 300 x 120mm size fabricated out of 2mm thick sheet metal with sealable door arrangement for mounting the CTS(if any) cutouts 3 phase dia 4 wire energy meter and cable box complete. A transparent glass piece should be provided where the energy meter reading could be read. b. Panel Board (15HP) One number of cubicle type of control panel board to operate on 50c/400/400v							
		Each						
	Gangammagudi-Kalattur layout		1				1.00	
	Gudde vinayaka Temple		1				1.00	
	Near Aveksha Hospital		1				1.00	
	Vinayaka Nagar		1				1.00	
	Singapura -Balaji Layout		1				1.00	
					Total		5.00	
19	Commissioning of work of pumpset including aligning and balancing with all necessary erection of material and labour including supply and erection of two pair of supporting clamps. One borewell cap, cable clips and water tight gland cable protectors, bolts nuts, valves and gauges etc., all job including fixing sluice valve, non return valve etc., and connecting deliver side of pumpset to rising main etc., complete							
		Each						
	Gangammagudi-Kalattur layout		1				1.00	
	Gudde vinayaka Temple		1				1.00	
	Near Aveksha Hospital		1				1.00	
	Vinayaka Nagar		1				1.00	
	Singapura -Balaji Layout		1				1.00	
					Total		5.00	

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MEASUREMENT

RA BILL NO FIRST AND FINAL

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
20	Supplying & Fixing 50mm G.I. Union							
		No						
	Gangammagudi-Kalattur layout		1				1.00	
	Gudde vinayaka Temple		1				1.00	
	Near Aveksha Hospital		1				1.00	
	Vinayaka Nagar		1				1.00	
	Singapura -Balaji Layout		1				1.00	
					Total		5.00	
21	Supplying & Fixing 50mm Elbow							
		No						
	Gangammagudi-Kalattur layout		3				3.00	
	Gudde vinayaka Temple		3				3.00	
	Near Aveksha Hospital		3				3.00	
	Vinayaka Nagar		3				3.00	
	Singapura -Balaji Layout		3				3.00	
					Total		15.00	
22	Supplying & Fixing 50mm G I Nipple							
		No						
	Gangammagudi-Kalattur layout		3				3.00	
	Gudde vinayaka Temple		3				3.00	
	Near Aveksha Hospital		3				3.00	
	Vinayaka Nagar		3				3.00	
	Singapura -Balaji Layout		3				3.00	
					Total		15.00	

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MEASUREMENT

RA BILL NO FIRST AND FINAL

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
23	Supplying & Fixing 50mm Collar							
		No						
	Gangammagudi-Kalattur layout		3				3.00	
	Gudde vinayaka Temple		3				3.00	
	Near Aveksha Hospital		3				3.00	
	Vinayaka Nagar		3				3.00	
	Singapura -Balaji Layout		3				3.00	
					Total		15.00	
24	Fabricating supplying and mounting MS box made out... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete							
	14 SWG	Sq.cms						
	Gangammagudi-Kalattur layout		2	100.00	100.00		20000.00	
	Gudde vinayaka Temple		2	100.00	100.00		20000.00	
	Near Aveksha Hospital		2	100.00	100.00		20000.00	
	Vinayaka Nagar		2	100.00	100.00		20000.00	
	Singapura -Balaji Layout		2	100.00	100.00		20000.00	
					Total		100000.00	

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MEASUREMENT

RA BILL NO FIRST AND FINAL

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
25	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint							
	50x50x6mm	**Rmtr**						
	Gangammagudi-Kalattur layout		1	6.00			6.00	
	Gudde vinayaka Temple		1	6.00			6.00	
	Near Aveksha Hospital		1	6.00			6.00	
	Vinayaka Nagar		1	6.00			6.00	
	Singapura -Balaji Layout		1	6.00			6.00	
					Total		**30.00**	
26	Supplying of TPST with rewirableporcelain channels in SM enclosure							
	32 AMPS	**Each**						
	Gangammagudi-Kalattur layout		1				1.00	
	Gudde vinayaka Temple		1				1.00	
	Near Aveksha Hospital		1				1.00	
	Vinayaka Nagar		1				1.00	
	Singapura -Balaji Layout		1				1.00	
					Total		**5.00**	
27	Supply and fixing polished wood board made of not less than 15mmthick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc							
	20"x20"x2.5"	**Each**						
	Gangammagudi-Kalattur layout		1				1.00	
	Gudde vinayaka Temple		1				1.00	
	Near Aveksha Hospital		1				1.00	
	Vinayaka Nagar		1				1.00	
	Singapura -Balaji Layout		1				1.00	
					Total		**5.00**	

Contractor

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30/8/19

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BRUHATH BANGALORE MAHANAGARA PALIKE

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MEASUREMENT

RA BILL NO FIRST AND FINAL

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
28	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C.							
		Each						
	Gangammagudi-Kalattur layout		1				1.00	
	Gudde vinayaka Temple		1				1.00	
	Near Aveksha Hospital		1				1.00	
	Vinayaka Nagar		1				1.00	
	Singapura -Balaji Layout		1				1.00	
					Total		5.00	
29	Supplying fully automatic star-delta starter unit push buttontypewith suitablewires,3contactors,oneadjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor							
		Each						
	Gangammagudi-Kalattur layout		1				1.00	
	Gudde vinayaka Temple		1				1.00	
	Near Aveksha Hospital		1				1.00	
	Vinayaka Nagar		1				1.00	
	Singapura -Balaji Layout		1				1.00	
					Total		5.00	
30	Supplying and fixing single phase preve_nterusing necessary wires over an existing panel board suitable for motor up to 20 HP capacities.							
		Each						
	Gangammagudi-Kalattur layout		1				1.00	
	Gudde vinayaka Temple		1				1.00	
	Near Aveksha Hospital		1				1.00	
	Vinayaka Nagar		1				1.00	
	Singapura -Balaji Layout		1				1.00	
					Total		5.00	

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RA BILL NO FIRST AND FINAL

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
31	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Coppers with low conductorresistance single core cable in open or concealed system of wiring with specified IS 694: 1990 & confirmining to GTP of GROUP-A							
		Rmtr						
	Gangammagudi-Kalattur layout		1	20.00			20.00	
	Gudde vinayaka Temple		1	20.00			20.00	
	Near Aveksha Hospital		1	20.00			20.00	
	Vinayaka Nagar		1	20.00			20.00	
	Singapura -Balaji Layout		1	20.00			20.00	
					Total		100.00	
32	Supplying,fixing and wiring heavy duty low voltage capacitors conforming to IS 2834. 3 phase, 400/440 volts grade, for power factor improvement of rotating machinery.Cost per KVAR							
		KVAR						
	Gangammagudi-Kalattur layout		1	4.00			4.00	
	Gudde vinayaka Temple		1	4.00			4.00	
	Near Aveksha Hospital		1	4.00			4.00	
	Vinayaka Nagar		1	4.00			4.00	
	Singapura -Balaji Layout		1	4.00			4.00	
					Total		20.00	

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Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
33	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF,energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898							
	40-63Amps TPN	**Each**						
	Gangammagudi-Kalattur layout		1				1.00	
	Gudde vinayaka Temple		1				1.00	
	Near Aveksha Hospital		1				1.00	
	Vinayaka Nagar		1				1.00	
	Singapura -Balaji Layout		1				1.00	
					Total		**5.00**	
34	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia							
		No						
	Gangammagudi-Kalattur layout		1				1.00	
	Gudde vinayaka Temple		1				1.00	
	Near Aveksha Hospital		1				1.00	
	Vinayaka Nagar		1				1.00	
	Singapura -Balaji Layout		1				1.00	
					Total		**5.00**	

Contractor

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RA BILL NO FIRST AND FINAL

Item no	From	Unit	nos	L (m)	B (m)	D (m)	Quantity	Remarks
1	2	3	4	5	6	7	8	9
38	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete							
		Rmtr						
	Gangammagudi-Kalattur layout		1	20.00			20.00	
	Gudde vinayaka Temple		1	20.00			20.00	
	Near Aveksha Hospital		1	20.00			20.00	
	Vinayaka Nagar		1	20.00			20.00	
	Singapura -Balaji Layout		1	20.00			20.00	
					Total		100.00	
39	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.							
	16Sqmm	Each						
	Gangammagudi-Kalattur layout		1				1.00	
	Gudde vinayaka Temple		1				1.00	
	Near Aveksha Hospital		1				1.00	
	Vinayaka Nagar		1				1.00	
	Singapura -Balaji Layout		1				1.00	
					Total		5.00	

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